Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known Application Number INFORMATION DISCLOSURE To be assigned Filing Date August 22, 2003 STATEMENT BY APPLICANT First Named Inventor Havenga et al. Group Art Unit 1636 (presumed)

(use as many sheets as necessary)

Maria Marvich, Ph.D. (presumed) of 9 2578-4489.1US Attorney Docket Number

	Г		U.S. PATENT D	· · · · · · · · · · · · · · · · · · ·	
Examiner Cite Initials • No.1		Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
mm		US- 4,487,829	12/11/1984	Sharp et al.	rigures Appear
1		US- 4,517,686	05/21/1985	Ruoslahti et al.	
		US- 4,578,079	. 03/25/1986	Ruoslahti et al.	
		US- 4,589,881	05/20/1986	Pierschbacher et al.	•
		US- 4,593,002	06/03/1986	Dulbecco	
		US- 4,792,525	12/20/1988	Ruoslahti et al.	
7		US- 4,797,368	01/10/1989	Carter et al.	
		US- 4,956,281	09/11/1990	Wallner et al.	
		US- 5,024,939	06/18/1991	Gorman	
		US- 5,096,815	03/17/1992	Ladner et al.	
		US- 5,166,320	11/24/1992	Wu et al.	
		US- 5,198,346	03/30/1993	Ladner et al.	
		US- 5,204,445	04/20/1993	Plow et al.	·
		US- 5,223,394	06/29/1993	Wallner	
		US- 5,223,409	06/29/1993	Ladner et al.	
		US- 5,240,846	08/31/1993	Collins et al.	
		US- 5,246,921	09/21/1993	Reddy et al.	
		US- 5,332,567	07/26/1994	Goldenberg	
		US- 5,349,053	09/20/1994	Landolfi	
		US- 5,403,484	04/04/1995	Ladner et al.	

Examiner Name

Examiner Cite Initials No. 1		FOREIGN P Foreign Patent Document	T	Name of Patentee or	Pages, Columns, Lines,	
		Country Code ³ - Number ⁴ - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Τ ⁶
mm		259212	03/09/1988	EP		
_1		2078631	03/19/1990	JP ·		
		WO 91/00360	01/10/1991	PCT		
		WO 91/05805	05/02/1991	PCT		,
		WO 91/05871	05/02/1991	PCT		
		WO 92/02553	02/20/1992	PCT	7	
		WO 92/13081	08/06/1992	PCT		
		WO 93/03769	03/04/1993	PCT		
		WO 93/06223	04/01/1993	PCT		

Examiner Signature	mmarrich	Date Considered	8119104

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE Application Number To be assigned August 22, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Havenga et al. Group Art Unit 1636 (presumed) (use as many sheets as necessary) Maria Marvich, Ph.D. (presumed) Examiner Name 2578-4489.1US Sheet Attorney Docket Number

Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
Initials No.		Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear
mm		US-5,436,146	07/25/1995	Shenk et al.	•
- 1		US- 5,443,953	08/22/1995	Hansen et al.	
		US- 5,474,935	12/12/1995	Chatterjee et al.	
		US- 5,521,291	05/28/1996	Curiel et al.	
		US- 5,534,423	07/09/1996	Palsson et al.	
		US- 5,543,328	08/06/1996	McCielland et al.	
		US- 5,547,932	08/20/1996	Curiel et al.	
		US- 5,552,311	09/03/1996	Sorscher et al.	W.,
		US- 5,559,099	09/24/1996	Wickham et al.	-
		US- 5,571,698	11/05/1996	Ladner et al.	
		US- 5,622,699	04/22/1997	Ruoslahti et al.	
		US- 5,712,136	01/27/1998	Wickham et al.	
		US- 5,731,190	03/24/1998	Wickham et al.	
		US- 5,756,086	05/26/1998	McClelland et al.	
		US- 5,770,442	06/23/1998	Wickham et al.	
	1	US- 5,922,315	07/13/1999	Roy	
		US- 6,127,525	10/03/2000	Crystal et al.	
		US-			
		US-			
	1	US-			

FOREIGN PATENT DOCUMENTS								
Examiner Cite No. 1	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,			
	Country Code ³ - Number ⁴ - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear				
mm		WO 93/07282	04/15/1993	PCT				
1		WO 93/07283	04/15/1993	PCT _.				
		WO 94/08026	04/14/1994	PCT				
		WO 94/10323	05/11/1994	PCT				
		WO 94/11506	05/26/1994	PCT				
		WO 94/15644	07/21/1994	PCT				
		WO 94/17832	08/14/1994	PCT				
		WO 94/24299	10/27/1994	PCT				
		WO 94/26915	11/24/1994	PCT				

Examiner Signature	MMarrich	Date Considered	8/19/04

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

2578-4489.1US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE Application Number To be assigned Filing Date STATEMENT BY APPLICANT August 22, 2003 First Named Inventor Havenga et al. Group Art Unit 1636 (presumed) (use as many sheets as necessary) Examiner Name Maria Marvich, Ph.D. (presumed)

Attorney Docket Number

	<u> </u>		ATENT DOCU	MENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
MM		WO 95/05201	02/23/1995	PCT		
i		WO 95/06745	03/09/1995	PCT		
$\perp 1$		WO 95/14785	06/01/1995	PCT		
		WO 95/16037	06/15/1995	PCT		
		WO 95/21259	08/10/1995	PCT		
		WO 95/26412	10/05/1995	PCT		
		WO 95/2707 I	10/12/1995	PCT		
		WO 95/31187	11/23/1995	PCT		
		WO 95/31566	11/23/1995	PCT		
		WO 96/00790	01/11/1996	PCT		
		. WO 96/07739	03/14/1996	PCT		
		WO 96/10087	04/04/1996	PCT		
		WO 96/13597	05/09/1996	PCT		
		WO 96/14837	05/23/1996	PCT		
		WO 96/17073	06/06/1996	PCT		
		WO 96/18740	06/20/1996	PCT		
		WO 96/26281	08/29/1996	Wickham et al.	DCT	
		WO 97/00326	01/03/1997	PCT		
		WO 97/24453	07/10/1997	PCT		
		WO 97/38723	10/23/1997	PCT		
		WO 98/07865	02/26/1998	PCT		
		WO 98/11221	03/19/1998	PCT		•
		WO 98/13499	04/02/1998	PCT		
		WO 98/22609	05/28/1998	PCT		
		WO 98/32842	07/30/1998	· PCT		
		WO 98/40509	09/17/1998	PCT		
		WO 98/50053 A1	11/12/1998	Oorzigila Mario	Pot	
		WO 99/47180 A1	09/23/1999	Овягуте С огр.	Pct	
		WO 00/31285 A1	06/02/2000	Introgene B.V.	Par	
		WO 00/52186 AI	09/08/2000	Bout Abraham	Par	
		WO 00/70071 A1	11/23/2000	Rout Abraham	PCT	
T		WO 02/24730 A2	0.3/28/2002	Cruedl Holland B.V.	PEI	

Signature MV/WWY/h Considered 019	Examiner Signature	1.11.4.4001/11.11/10	Date Considered	011917
-----------------------------------	-----------------------	----------------------	--------------------	--------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitut	te for form 1449A	/РТО			Complete if Known
INE	ОДМАТ	ION DI	CCI OCUDE	Application Number	To be assigned
			SCLOSURE	Filing Date	August 22, 2003
STA	TEMEN	L BY A	PPLICANT	First Named Inventor	Havenga et al.
				Group Art Unit	1636 (prestimed)
	(use as ma	ny sheets as	necessary)	Examiner Name	Maria Marvich, Ph.D. (presumed)
Sheet	4	of	9	Attorney Docket Number	2578-4489.1US

·.		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
mm		ALBIGES-RIZO et al., "Human Adenovirus Serotype 3 Fiber Protein," Journal of Biological Chemistry, 266(6), 3961-3967 (1991).	
mm		BAI et al., "Mutations That Alter an Arg-Gly-Asp (RGD) Sequence in the Adenovirus Type 2 Penton Base Protein Abolish Its Cell-Rounding Activity and Delay Virus Reproduction in Flat Cells," Journal of Virology, 67(9), 5198-5205 (1993).	
MM		BAILEY et al., "Phylogenetic Relationships among Adenovirus Serotypes," Virology, 205, 439-452 (1994).	-
mn		BALL-GOODRICH et al., "Parvoviral Target Cell Specificity: Acquisition of Fibrotropism by a Mutant of the Lymphotropic Strain of Minute Virus of Mice Involves Multiple Amino Acid Substitutions within the Capsid," Virology, 184, 175-186 (1991).	
MM		BATRA et al., "Receptor-mediated gene delivery employing lectin-binding specificity," Gene Therapy, 1, 255-260 (1994).	
min		BERENDSEN, Herman J.C., A Glimpse of the Holy Grail, Science, 1998, Vol. 282, pp. 642-43.	
Myn		BOURSNELL et al., "In vitro construction of a recombinant adenovirus Ad2:Ad5," Gene, 13, 311-317 (1981).	
Mn		CAILLET-BOUDIN et al., "Functional and Structural Effects of an Ala to Val Mutation in the Adenovirus Serotype 2 Fibre," J. Mol. Biol., 217, 477-486 (1991).	
mm		CHROBOCZEK et al., "The Sequence of the Genome of Adenovirus Type 5 and Its Comparison with the Genome of Adenovirus Type 2," Virology, 186, 280-285 (1992).	
mm		CHROBOCZEK et al., Adenovirus Fiber, Current Topies in Microbiology and Immunology 1995;199 (Pt 1):163-200	
mm		CHU et al., "Cell targeting with retroviral vector particles containing antibody-envelope fusion proteins," Gene Therapy, 1, 292-299 (1994).	
mm		COTTEN et al., "High-efficiency receptor-mediated delivery of small and large (48 kilobase gene constructs using the endosome-disruption activity of defective or chemically inactivated adenovirus particles," Proc. Natl. Acad. Sci. USA, 89, 6094-6098 (1992).	

Examiner MMMMCh Signature	Date Considered	6/19/04
---------------------------	--------------------	---------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449AJPTO INFORMATION DISCLOSURE				Complete if Known		
				Application Number	To be assigned	
				Filing Date	August 22, 2003	
STAT	EMENT	BYA	PPLICANT	First Named Inventor	Havenga et al.	
				Group Art Unit	1636 (presumed)	
(use as many sheets as necessary)			necessary)	Examiner Name	Maria Marvich, Ph.D. (presumed)	
Sheet	5 .	of	9	Attorney Docket Number	2578-4489.1US	

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
MM		COTTEN et al., "Transferrin-polycation-mediated introduction of DNA into human leukemic cells: Stimulation by agents that affect the survival of transfected DNA or modulate transferrin receptor levels," Proc. Natl. Acad. Sci. USA, 87, 4033-4037 (1990).	
Mm		CRAWFORD-MIKSZA et al., "Adenovirus Serotype Evolution Is Driven by Illegitimate Recombination in the Hypervariable Regions of the Hexon Protein," Virology, 224, 357-367 (1996).	
WW		CRAWFORD-MIKSZA et al., "Analysis of 15 Adenovirus Hexon Proteins Reveals the Location and Structure of Seven Hypervariable Regions Containing Serotype-Specific Residues," J. Virol., 70(3), 1836-1844 (1996).	
WW		CROMPTON et al., "Expression of a foreign epitope on the surface of the adenovirus hexon," J. Gen. Virol., 75(1), 133-139 (1994).	
MM		CRYSTAL, Ronald G., "Transfer of Genes to Humans: Early Lessons and Obstacles to Success," Science, 270, 404-410 (1995).	
WW		CURIEL et al., "Adenovirus enhancement of transferrin-polylysine-mediated gene delivery," Proc. Natl. Acad. Sci. USA, 88, 8850-8854 (1991).	
WM		CURIEL et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," Human Gene Therapy, 3, 147-154 (1992).	
WW		DEFER et al., "Human Adenovirus-Host Cell Interactions: Comparative Study with Members of Subgroups B and C," Journal of Virology, 64(8), 3661-3673 (1990).	
WW		DE JONG et al., Adenoviruses from Human Immunodeficiency Virus-Infected Individuals, Including Two Strains That Represent New Candidate Serotypes Ad50 and Ad51 of Species B1 and D, Respectively, Journal of Clinical Microbiology, Dec. 1999, p. 3940-45, Vol. 37, No. 12, American Society for Microbiology.	
WW		DUPUIT et al., "Regenerating Cells in Human Airway Surface Epithelium Represent Preferential Targets for Recombinant Adenovirus," Human Gene Therapy, 6, 1185-1193 (1995).	
ΜŴ		ETIENNE-JULAN et al., "The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cell-virus linker," Journal of General Virology, 73, 3251-3255 (1992).	
mm		FALGOUT et al., "Characterization of Adenovirus Particles Made by Deletion Mutants Lacking the Fiber Gene," Journal of Virology, 62(2), 622-625 (1988).	
NAM		GALL et al., "Adenovirus type 5 and 7 capsid chimera: Fiber replacement alters receptor tropism without affecting primary immune neutralization epitopes," 70(4) Journal of Virology 2116-23 (1996).	

Examiner Signature M MMM	Date Considered	8/19/104
--------------------------	--------------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known Application Number To be assigned INFORMATION DISCLOSURE Filing Date August 22, 2003 STATEMENT BY APPLICANT First Named Inventor Havenga et al. Group Art Unit 1636 (presumed) (use as many sheets as necessary) Examiner Name Maria Marvich, Ph.D. (presumed) Sheet of 2578-4489.1US Attorney Docket Number

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
mm		GALL et al., "Construction and characterization of Hexon-Chimeric Adenoviruses: Specification of adenovirus serotype," 72(12) Journal of Virology 10260-64 (1998).	
mm		GREBER et al., "Stepwise Dismantling of Adenovirus 2 during Entry into Cells," Cell, 75, 477-486 (1993).	
MM		GREEN et al., "Evidence for a repeating cross-β sheet structure in the adenovirus fibre," EMBO Journal, 2(8), 1357-1365 (1983).	
MM		GRUBB et al., Inefficient gene transfer by adenovirus vector to cystic fibrosis airway epithelia of nuice and humans, Nature, 371, 802-806 (1994).	
MM		HAN et al., "Ligand-directed retroviral targeting of human breast cancer cells," Proc. Natl. Acad. Sci. USA, 92, 9747-9751 (1995).	
MM		HENRY et al., "Characterization of the Knob Domain of the Adenovirus Type 5 Fiber Protein Expressed in Escherichia coli," Journal of Virology, 68(8), 5239-5246 (1994).	
MM		HONG et al., "The Amino Terminus of the Adenovirus Fiber Protein Encodes the Nuclear Localization Signal," Virology, 185(2), 758-767 (1991).	
MM		HORVATH et al., "Nonpermissivity of Human Peripheral Blood Lymphocytes to Adenovirus Type 2 Infection," Journal of Virology, 62(1), 341-345 (1988).	
mm		HUANG et al., "Upregulation of Integrins ανβ3 and ανβ5 on Human Monocytes and T Lymphocytes Facilitates Adenovirus- Mediated Gene Delivery," Journal of Virology, 69(4), 2257-2263 (1995).	
mm		KARAYAN et al., "Oligomerization of Recombinant Penton Base of Adenovirus Type 2 and Its Assembly with Fiber in Baculovirus-Infected Cells," Virology, 202, 782-795 (1994).	
mw		KASS-EISLER et al., "Quantitative determination of adenovirus-mediated gene delivery to rat cardiac myocytes in vitro and in vivo," Proc. Natl. Acad. Sci. USA, 90, 11498-11502 (1993).	
MM		KOMORIYA et al., "The Minimal Essential Sequence for a Major Cell Type-specific Adhesion Site (CS1) within the Alternatively Spliced Type III Connecting Segment Domain of Fibronectin Is Leucine-Aspartic Acid-Valine,: Journal of Biological Chemistry, 266(23), 15075-15079 (1991).	
mm		LIU et al., Molecular Basis of the inflammatory response to adenovirus vectors. Gene Therapy (2003 10, 935-40.	
MM		MARAVEYAS et al., "Targeted Immunotherapy – An update with special emphasis on ovarian cancer," Acta Oncologica, 32(7/8), 741-746 (1993).	

	Examiner Signature	Monarich	Date Considered	8/19/04
--	-----------------------	----------	--------------------	---------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)
Sheet 7 of 9

	Complete if Known
Application Number	To be assigned
Filing Date	August 22, 2003
First Named Inventor	Havenga et al.
Group Art Unit	1636 (presumed)
Examiner Name	Maria Marvich, Ph.D. (presumed)
Attorney Docket Number	2578-4489.1US

	,	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), datc, pagc(s), volume-issue number(s), publisher, city and/or country where published.	Τ2
hun		MASTRANGELI et al., "In Vivo Gene Transfer to the Lung of Experimental Animals Using a Chimeric Ad5/Ad7 Adenovirus Vector," Ped. Pulm., Suppl., 12, 230, Abst. No. 180 (1995).	
MM		MASTRANGELI et al., ""Sero-Switch" Adenovirus-Mediated In Vivo Gene Transfer. Circumvention of Anti-Adenovirus Humoral Immune Defenses Against Repeat Adenovirus Vector Administration by Changing the Adenovirus Serotype," Human Gene Therapy, 7, 79-87 (1996).	
MM		MATHIAS et al., "Multiple Adenovirus Serotypes Use av Integrins for Infection," Journal of Virology, 68(10), 6811-6814 (1994).	
MM		MAUTNER et al., "Recombination in Adenovirus: Analysis of Crossover Sites in Intertypic Overlap Recombinants," Virology, 139, 43-52, (1984).	
MM		MAUTNER et al., "Recombination in Adenovirus: DNA Sequence Analysis of Crossover Sites in Intertypic Recombinants," Virology, 131, 1-10 (1983).	
mh		MICHAEL et al., "Addition of a short peptide ligand to the adenovirus fiber protein," Gene Therapy, 2, 660-668 (1995).	
MM	*	MICHAEL et al., "Binding-incompetent Adenovirus Facilitates Molecular Conjugate-mediated Gene Transfer by the Receptor-mediated Endocytosis Pathway," Journal of Biological Chemistry, 268(10), 6866-6869 (1993).	-
MM		MILLER et al., "Targeted vectors for gene therapy," FASEB Journal, 9, 190-199 (1995).	
mm	,	NEDA et al., "Chemical Modification of an Ecotropic Murine Leukemia Virus Results in Redirection of Its Target Cell Specificity," Journal of Biological Chemistry, 266(22), 14143-14146 (1991).	
MM		NEMEROW et al., "Adenovirus entry into host cells: a role for a, integrins," Trends In Cell Biology, 4, 52-55 (1994).	
mm		NEMEROW et al., "The Role of av Integrins in Adenovirus Infection," Biology of Vitronectins and their Receptors, 177-184 (1993).	

Examiner Signature	MManich	Date Considered	8/19/04	
-----------------------	---------	--------------------	---------	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 9 Sheet

	Complete if Known To be assigned August 22, 2003 Havenga et al.
Application Number	To be assigned
Filing Date	August 22, 2003
First Named Inventor	Havenga et al.
Group Art Unit	1636 (presumed)
Examiner Name	Maria Marvich, Ph.D. (presumed)
Attorney Docket Number	2578-4489.1US

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
MM		NOVELLI et al., "Deletion Analysis of Functional Domains in Baculovirus-Expressed Adenovirus Type 2 Fiber," Virology, 185, 365-376 (1991).	
MM		ORKIN et al., "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy," (1995), file:///F /NIHrec.htm 1/4/01 1:37 pm.	
M		PETERANDERL et al., "Trimerization of the Heat Shock Transcription Factor by a Triple-Stranded α-Helical Coiled-Coil," Biochemistry, 31, 12272-12276 (1992).	
MM		PRING-AKERBLOM et al., "Sequence Characterization and Comparison of Human Adenovirus Subgenus B and E Hexons," Virology, 212, 232-36 (1995).	
////		ROBERTS et al., "Three-Dimensional Structure of the Adenovirus Major Coat Protein Hexon," Science, 232, 1148-51 (1986).	
MM		RUSSELL et al., "Retroviral vectors displaying functional antibody fragments," Nucleic Acids Research, 21(5), 1081-1085 (1993).	
MM		SIGNAS et al., "Adenovirus 3 Fiber Polypeptide Gene: Implications for the Structure of the Fiber Protein," Journal of Virology, 53(2), 672-678 (1985).	
MM		SILVER et al., "Interaction of Human Adenovirus Serotype 2 with Human Lymphoid Cells," Virology, 165, 377-387 (1988).	
MW	*	STEVENSON et al., "Selective targeting of human cells by a chimeric adenovirus vector containing a modified fiber protein," 71(6) Journal of Virology, 4782-90 (1997).	
WW		STEWART et al., "Difference imaging of adenovirus: bridging the resolution gap between X-ray crystallography and electron microscopy," EMBO Journal, 12(7), 2589-2599 (1993).	
MM		VERMA et al., "Gene Therapy - promises, problems and prospects," Nature, 389, 239-42 (1997).	
Mh		WADELL, G., "Molecular Epidemiology of Human Adenoviruses," Curr. Top. Microbiol. Immunol., 110, 191-220 (1984).	-

Examiner	Ma Man wid	Date	8/16/01
Signature	Myranich	Considered	0111109

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

	Substitute f	for form 1449	A/PTO		Complete if Known		
	INTO	DMAT	TON DE	SCLOSURE	Application Number	To be assigned	
					Filing Date	August 22, 2003	
	STATEMENT BY APPLICANT				First Named Inventor	Havenga et al.	
					Group Art Unit	1636 (presumed)	
	(use as many sheets as necessary)		necessary)	Examiner Name	Maria Marvich, Ph.D. (presumed)		
	Shect	ect 9 of 9		Attorney Docket Number	2578-4489.1US		

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
mm		WAGNER et al., "Coupling of adenovirus to transferm-polylysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression of transfected genes," Proc. Natl. Acad. Sci. USA, 89, 6099-6103 (1992).	
MM		WATSON et al., "An Antigenic Analysis of the Adenovirus Type 2 Fibre Polypeptide," Journal of Virology, 69, 525-535 (1988).	
MMΛ		WICKHAM et al., "Integrins α,β, and α,β, Promote Adenovirus Internalization but Not Virus Attachment," Cell, 73, 309-319 (1993).	
MM		WICKHAM et al., "Integrin ανβ5 Selectively Promotes Adenovirus Mediated Cell Membrane Permeabilization," Journal of Cell Biology, 127(1), 257-264 (1994).	
MM		International Search Report, International Application No. PCT/EP01/10999, dated March 26, 2003 (6 pages).	
MM		PCT International Pretiminary Examination Report, PC1/EP01/10999, dated September 23, 2002, 11 pages.	
	·	*	
	-		

Examiner Signature	MM Marid	Date Considered	8/19/01
Signature	11.11	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.



¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.